

PHILIP MORRIS U.S.A.
INTEROFFICE CORRESPONDENCE
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To: Distribution
From: W. L. Mokarry/W. E. Sterling
Subject: Equilibration OV Study

Date: November 14, 1994

A decision to do an additional equilibration OV study on the cigarette plenums was made in the Steering Team meeting on 11/10/94. We are running this test to determine what differences (if any) exist among the various equilibration methods. For the equilibration period examined, OV was designated as the most critical variable.

The test protocol for the new trials are as follows:

- 2 Brands
 - Marlboro KS (0290) ordered from MC
 - OV Monitor (uncased, unfiltered, single grade Bright)
- 4 Locations
 - Sample Prep Plenum (either Domestic or International)
 - Sample Prep Static
 - (placement within the room to be determined, or PML Static?)
 - PML Plenum
 - "Hot Pack" Chamber located in "Filtrona Smoking Cubicle".
- 3 Equilibration times
 - 0 (as is from packs or cans)
 - 24 hr
 - 48 hr
- 5 Replicates per OV determination

Brands were limited in this study to obtain a reasonable test size. Only one plenum from Sample Prep was included since both plenums have the same design and characteristics. Five replicates were requested to determine OV differences of 0.1%. This was also the limit for one oven load: 2 brands \times 4 locations \times 5 replicates = 40 cans per day.

One oven will be used for the entire test (this oven will not be overhauled until the test is completed). One technician will be assigned to handle the entire test.

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Marlboro KS cigarettes have been received from the MC. On Monday, November 21, the designated technician will open five cartons of Marlboro. Eight plenum trays will be randomly loaded with 100 cigarettes each. Bar codes will be available to label these trays:

MarlSPP 24	MarlHOT 24
MarlSPP 48	MarlHOT 48
MarlSPS 24	MarlPML 24
MarlSPS 48	MarlPML 48

where SPP = Sample Prep Plenum, SPS = Sample Prep Static, PML = PML Plenum, and HOT = Hot Pack Chamber. These trays will be loaded into their designated locations in spaces near the center of the plenum or chamber. The locations do not have to be exact, but should be close. The trays that are to be located within a plenum must be placed in the 2nd (24-hr.), and 3rd (48-hr), slots from the top of the cubicle.

The remaining 200 cigarettes will be jarred and ripped for ten OV determinations. This is the Marlboro zero time value.

Also on Monday, twelve cans of OV monitor will be opened. Eight plenum trays will be randomly loaded with 100 cigarettes each. Bar codes will be available to label these trays:

MonSPP 24	MonHOT 24
MonSPP 48	MonHOT 48
MonSPS 24	MonPML 24
MonSPS 48	MonPML 48

As above, the locations do not have to be exact, but should be close. The Monitor trays must be side by side with the Marlboro trays.

The remaining cigarettes will be jarred and ripped for ten OV determinations. This is the Monitor zero time value.

Samples will be removed from the plenums and tested by the following schedule:

<u>Equilibration Time</u>	<u>Day/Date</u>
24 hrs	Tues., Nov 22nd
48 hrs	Thurs, Nov 23rd

Five OV determinations will be made for each sample in each location. All samples must be tested at the same time of day that they were initially loaded into the plenum.

Please call Ed Sterling at x5796 if you have any questions.

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